
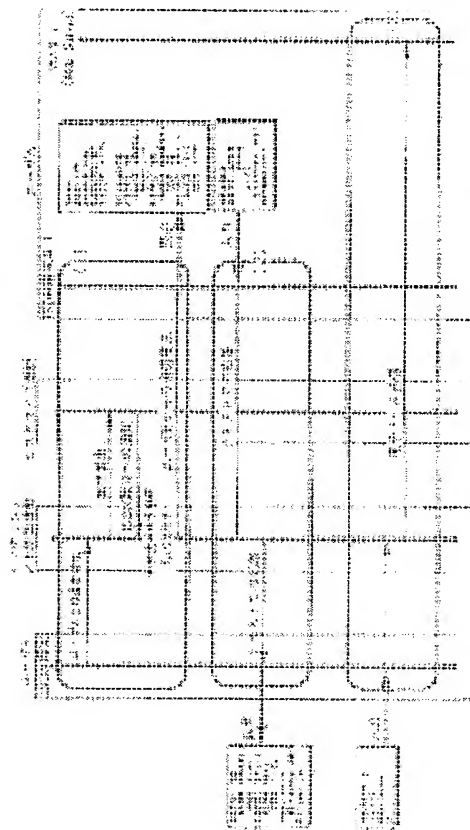


**COMMUNICATION METHOD AND COMMUNICATION SYSTEM****Publication number:** JP9294163 (A)**Publication date:** 1997-11-11**Inventor(s):** TSUJINO MASAYUKI; KUMAHARA NORIO**Applicant(s):** NIPPON TELEGRAPH & TELEPHONE**Classification:****- international:** *H04M3/42; H04M3/00; H04Q3/58; H04M3/42; H04M3/00; H04Q3/58; (IPC1-7): H04M3/42; H04M3/00***- European:****Application number:** JP19960106509 19960426**Priority number(s):** JP19960106509 19960426**Also published as:** JP3398278 (B2)**Abstract of JP 9294163 (A)**

**PROBLEM TO BE SOLVED:** To provide a communication method and a communication system by which a called party can select a communication means after recognizing the name of the caller in advance. **SOLUTION:** A scenario of communication connection with respect to a caller user B is registered in advance to a customize function of an intelligent private branch of exchange by a called user A at first. When a communication request comes from the caller user B, an intelligent control function of the intelligent private branch of exchange inquires of the customize function about the scenario of the caller user B and informs a communication request from the user B to a called terminal equipment (ISDN communication terminal equipment) before a communication connection is set up.; The called user A selects a desired communication means among receivable communication means and informs it to the caller user B. When the caller user B approves it or select again another communication means, the intelligent control function sets up the communication connection accordingly.

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## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the correspondence procedure and communications system which are used when thinking that an action addressee wants to choose a means of communication, after getting to know an addresser name a priori.

[0002]

[Description of the Prior Art]Although the action addressee registers the means of communication according to the addresser beforehand and the communications system with a screening function which accepts only communication by the means of communication to the addresser of relevance is proposed, This communications system does not have the function to ask the intention of an action addressee, before establishing a communication interface in response to needed information.

[0003]In addition, there are a system etc. which control crank call repulse service as a communications system which changes communication interface processing according to an addresser to needed information. However, this communications system does not notify an addresser name to an action addressee. Selection of a means of communication cannot be performed only in selection of whether a communication interface is performed or not to carry out.

[0004]

[Problem(s) to be Solved by the Invention]The communications system by said which conventional technology also had the problem that the means of communication which an action addressee permits to an addresser could not be chosen, after notifying information, including an addresser's name etc., beforehand.

[0005]There is the purpose of this invention in providing a correspondence procedure and a communications system with an action addressee able to choose a means of communication, after getting to know an addresser name a priori in order to solve the above-mentioned problem.

[0006]

[Means for Solving the Problem]In order to attain the above-mentioned purpose, a correspondence procedure of this invention, In a correspondence procedure in a communications system which can choose a means of communication, a communications system, Needed information including information on a name, an address, etc. of an addresser from an addresser which an action addressee specified beforehand is received, A means of communication permitted while an usable means of communication of said action addressee is displayed on a called terminal as an addresser name at the time and said action addressee refers to information, including an addresser name etc., before establishing a communication interface with said addresser is shown to said addresser, Or in a correspondence procedure in a communications system which can choose a means of communication a communications system, Register beforehand a procedure which chooses a means of communication for every addresser, and needed information including information on a name, an address, etc. of an addresser from an addresser which an action addressee specified beforehand is received, Before establishing a communication interface with said addresser, a means of communication permitted while an usable means of communication of said action addressee is displayed on a called terminal as an addresser name at the time and said action addressee refers to information, including an addresser name etc., according to said procedure is shown to said addresser.

[0007]In order to attain the above-mentioned purpose similarly, a communications system of this invention, A customization control means which memorizes a procedure which chooses a means of communication in a communications system which can choose a means of communication, According to said procedure, a means of communication permitted while an action addressee refers to information, including an addresser name etc., is shown to an addresser, Having an intelligent control means as which said addresser is made to recognize or choose a means of communication, and said customization control means An addresser, Or memorizing a

procedure which chooses a means of communication for every addresser category and said intelligent control means, When a means of communication and an addresser at the time of needed information from an addresser differ in said means of communication recognized or chosen, they change an address of a means of communication at the time of said needed information into an address of said means of communication recognized or chosen.

[0008]In the above this invention, a procedure of a communication interface to an addresser is registered beforehand, By showing an usable means of communication at an addresser name and its time, making a means of communication choose it as an action addressee, showing an addresser this means of communication, and making recognition or reselection, before establishing a communication interface according to that procedure, when needed information occurs, It enables it to choose a means of communication permitted after an action addressee gets to know an addresser a priori.

[0009]

[Embodiment of the Invention]Below, the example of 1 embodiment of this invention is explained in detail using figures.

[0010]The hard UAA composition which realizes the example of 1 embodiment of the communications system of this invention is shown in drawing 1. 1-1 is a highly efficient ISDN communication terminal with a text-editing function which are main communication terminals at the time of using this communications service, and is accommodated in the intelligent private branch exchange 1-2 used as the control base of this communications system by an I interface. Highly efficient ISDN communication terminal 1-1 can register information, including the user name etc. to be used, and can notify the information to the intelligent private branch exchange 1-2 at the time of a communication interface establishment request. The intelligent private branch exchange 1-2 has the computers (WS etc.) 1-3 used as a mail server, and an interface which accommodates the other communication terminals 1-4 (an analog telephone, PHS, FAX, etc.).

[0011]It is connected to ISDN1-5 and the intelligent private branch exchange 1-2 has a customization feature and an intelligent control facility as main functions. The customization feature has registered the scenario of in what kind of procedure the user using this communications system chooses a means of communication for every addresser category, and notifies the scenario relevant to a key for an addresser name to the inquiry from an intelligent control facility. An intelligent control facility is a subject who controls a communication interface as a scenario. This function also performs reference of the operating condition of the terminal accommodated in the intelligent private branch exchange 1-2, and address translation execution at the time of communication terminal change.

[0012]The sequence of the real action example at the time of the communications processing which used the communications system of this example of an embodiment is shown in drawing 2 and drawing 3.

[0013]Before the user A establishes a communication interface to the needed information from the user B, the 1st real action example of drawing 2 to the highly efficient ISDN communication terminal which is a called terminal First, an addresser name, And it is a case where the scenario of displaying an usable means of communication at the time, and choosing a means of communication based on these information is beforehand registered into the customization feature.

[0014](1) The user B (addresser) gives the information about the communication terminal which a name, classification, etc. use, and advances the needed information to the user A (action addressee). An intelligent control facility receives this demand, uses an addresser name as a key, and asks a customization feature the scenario for a communication interface. In this example, an intelligent control facility displays on a called terminal that needed information occurs from the user B by text information according to directions of a scenario like the following display example. At this time, an action addressee checks the operating condition of the communication terminal which is carrying out use registration, and an intelligent control facility displays an usable means of communication on a called terminal (in an example, since it is [ FAX ] under use, this is not displayed as a means of communication).

[0015]<Display example of a called terminal> Request-to-receipt sending person user B sending person phone number :. BBBB demand means-of-communication: -- telephone demand addressee: -- user A ready-for-receiving ability means-of-communication means-of-communication 1:telephone terminal classification: -- cellular-phone #1 addressee: -- user A means-of-communication 2:telephone terminal classification: -- ISDN terminal #2 addressee: -- secretary means-of-communication 3:electronic mail terminal classification: -- WS#1 addressee: -- a user A (2) action addressee, It inputs in the form which chooses a means more desirable than the means of communication displayed on the called terminal, for example, is shown in the following input example. An intelligent control facility receives the notice of the means of communication which an action addressee chooses from a called terminal, and notifies it to a master station. In this example, the action-addressee message of making a telephone or an E-mail into a means of communication and the contents

"contact me by E-mail if not urgent" is notified to a master station. A master station displays in the form shown, for example in the following display example.

[0016]<the input example of a called terminal> -- request-to-receipt response communication means: -- the means of communication 1, the means of communication 3, and message: -- if not urgent, please contact me by the means of communication 3.

[0017]<the display example of a master station> -- means-of-communication 1:telephone terminal classification: -- cellular-phone #1 addressee: -- user A means-of-communication 2:electronic mail terminal classification: -- WS#1 addressee: -- user A addressee mail: -- if not urgent, please contact me by the means of communication 2.

[0018](3) An addresser gets to know the means of communication which an action addressee accepts by the above-mentioned display to a master station. An input as an addresser chosen a means of communication from it, for example, shown in the following input example is performed. An intelligent control facility performs a communication interface in response to the input from a master station. In this example, since the addresser chose the E-mail, that selected means of communication and sending message are inputted, and it replies to an intelligent control facility. An intelligent control facility transforms the telephone number of an action addressee into an e-mail address, and transmits a message in the address. When the number of the means of communication which an action addressee accepts is one, asking an addresser for selection of a means of communication will search for recognition.

[0019]<the input example of a master station> -- selection means-of-communication: -- two message: -- tomorrow afternoon --, next the 2nd real action example of drawing 3 at the time of XX, The user C is notified of the means of communication for the user C registered into the customization feature, After making the user C choose a means of communication from them, it is a case where the user A has registered beforehand into the customization feature the scenario for the communication interface of displaying needed information occurring from the user C on the highly efficient ISDN communication terminal which is a called terminal.

[0020](1) The user C (addresser) gives the information about the communication terminal which a name, classification, etc. use, and advances the needed information to the user A (action addressee). An intelligent control facility receives this demand, uses an addresser name as a key, and asks a customization feature the scenario for a communication interface. The means of communication an action addressee accepts reception to be first in this example according to directions of a scenario in an intelligent control facility (this example) [The telephone to the user A, the telephone, the E-mail and FAX to a secretary] The operating condition of a communication terminal is checked and an usable means of communication is notified to a master station (in an example, since it is [ FAX ] under use, this is not notified as a means of communication). A master station displays the notified means of communication, for example like the following display example.

[0021]<the display example of a master station> -- means-of-communication 1:telephone terminal classification: -- ISDN terminal #1 addressee: -- user A means-of-communication 2:telephone terminal classification: -- ISDN terminal #2 addressee: -- secretary means-of-communication 3:electronic mail terminal classification: -- WS#1 addressee: -- a user A (2) addresser, The means of communication notified by the display of the master station is got to know. An addresser chooses from the notified means of communication, for example, inputs like the following input example. In this example, it chooses performing communication by a telephone (ISDN terminal#1) as a means of communication. An intelligent control facility notifies the demand to an addresser's means of communication to an action addressee. A called terminal is displayed, for example like the following display example.

[0022]<Input example of a master station> Selection means of communication :. 1 <display example of called terminal> request-to-receipt sending person user C demand means of communication :. means-of-communication 1 ready-for-receiving ability means-of-communication means-of-communication 1:telephone terminal classification: -- ISDN terminal #1 addressee: -- user A means-of-communication 2:telephone terminal classification: -- ISDN terminal #2 addressee: -- secretary means-of-communication 3:electronic mail terminal classification: -- WS#1 addressee: -- a user A (3) action addressee, It chooses from the means of communication notified by the above-mentioned display, for example, inputs like the following input example. An intelligent control facility receives the notice of the means of communication which an action addressee chooses from a called terminal, and notifies it to a master station. A master station is displayed, for example like the following display example. When accepting communication by the means of communication which the addresser chose, if it responds with Yes, an intelligent control facility will establish a communication interface. In this example, the action-addressee message of the contents of "feeling sorry for attaching during a meeting" is notified to a master station that the telephone or E-mail to a secretary is made into a means of communication.

[0023]<the input example of a called terminal> -- request-to-receipt response communication means: -- the means of communication 2, the means of communication 3, and <display example of master station> means-of-

communication 1:telephone terminal classification:ISDN terminal #2 addressee:secretary means-of-communication 2: -- attaching during an electronic mail terminal classification:WS#1 addressee:user A addressee message:meeting -- I am sorry.

[0024](4) From the means of communication which the action addressee chose, an addresser chooses a desirable thing, for example, inputs like the following input example. According to the contents, an intelligent control facility establishes a communication interface. In this example, since communication with a secretary was required, an intelligent control facility transforms the telephone number of an action addressee into a secretary's telephone number, and establishes a communication interface. When the number of the means of communication which the action addressee chose is one, asking an addresser for selection of a means of communication will search for recognition.

[0025]<The input example of a master station> Selection means of communication: The scenario which is 1 and which was registered for every above-mentioned addresser category may not be based on an addresser category, but may be single.

[0026]As mentioned above, as for this invention, although this invention was concretely explained based on said example of an embodiment, it is needless to say for it to be able to change variously in the range from which it is not limited to said example of an embodiment, and does not deviate to the gist.

[0027]

[Effect of the Invention]After getting to know an addresser name a priori, according to this invention, it enables an action addressee to choose a means of communication, as explained above.

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[Translation done.]